

AMPEX

VPR-10

Portable Video Recorder



VPR-10



Ampex announces the ultimate portable

Field-Designed Features — for users on the move

- Ampex 1" format, high-band direct color recording
- Dual audio tracks, plus cue, control and video tracks
- Rugged tape transport (the best in the business)
- Streamlined control features for operational simplicity
- Backpack fitted for go-anywhere convenience
- Electronic tension control & superior tape guiding
- Self-contained operation with quick-change battery pack
- A full hour of recording on 9" reels
- Automatic back-space assemble editing
- Fully remotable
- Operates in any position and on the go
- "Confidence" playback for video color and audio
- Accessory battery quick charger with AC power supply
- Rack mountable
- "Weather-proof" cover for protection in the field

— a new member of the Ampex advanced helical family

Our growing family of refined 1" helicals—the VTR's with a reputation for full broadcast quality on a budget—is gaining a new member. VPR-10 is a fully-compatible newcomer that gets along perfectly with the rest of the clan. This top of the line portable inherits the unsurpassed recording characteristics of VPR-1, but places them in a smaller, portable package. The complete enclosure, including hinged cover, takes up a little more than one cubic foot of space, forming a tight, compact unit that's easy to take with you.

Solid Broadcast Quality Plus True Portability

VPR-10 uses the proven quality of the Ampex non-segmented helical-scan format and high-band color to provide direct compatibility with the new VPR-1. So, when you're ready to play back on a VPR-1, you get all the unique performance benefits of our non-segmented format—like rock-solid still framing and flawless slow motion.

Whether your mission is ENG or electronic field production,

broadcast or non-broadcast, you no longer have to rely on lesser quality formats to get you where you want to go. As the ideal field-to-studio mate for VPR-1 and the new TBC-1 time base corrector, VPR-10 adds a new dimension of versatility for applications requiring broadcast quality and "studios without walls."

Strapped into its optional back pack frame, the VPR-10 weighs about 45 pounds with the weight comfortably distributed to let you get around. Used in combination with a self-contained minicamera, you can go wherever the action is and come back with broadcast-ready color pictures. You'll find Ampex reliability and quality inside and out. With its rigid transport and high-performance tape tension servos you can record with the unit in any position or while on the move and be confident of flawless tracking. Tape handling is gentle and consistent, and mechanisms stay aligned.



Thoroughbred Performance In A Pony-Sized Package

Sweet & Simple With the VPR-10, what you get is a whole lot more than what you see. To achieve great economies in size and weight yet retain the recording personality of a VPR-1, we had to start from the ground up. VPR-10 includes all of the features necessary for top-quality video and audio acquisition. But without unnecessary frills.

The operational simplicity of VPR-10 is unparalleled. Clearly labeled "indicator" push-buttons for tape shuttle, record, playback and stop let the operator concentrate on the subject rather than the recorder. With the turn of a dial the multi-meter switch lets you monitor the status of video, R.F., battery, and audio channels. Add the tape timer display and connector panel and you have everything you'll need to get the job done in true Ampex style. Other actuating and control features are handled internally through the extensive use of integrated circuits. Clean styling with no protrusions makes the VPR-10 a marvel of simplicity that will be greatly appreciated during tough assignments. When you use it you'll agree: simple is better.

Compact & Compatible VPR-10 lets you go. Without letting you down.

When you have to move fast, VPR-10 lets you slip into the scene effortlessly. Its "confidence" playback system keeps the unit compact and portable yet allows you to see and hear what's been recorded. Picture monitoring can be accomplished through the camera viewfinder or by using a separate monitor for color playback. Nine-inch reels provide a full-hour tape with no sequence gaps. The integral back-space (automatic assemble) editing feature puts recorded segments immediately next to each other and lets you edit in the field as you shoot.

When you've wrapped up your shooting session you're ready to go on the air or into post-production. No more fussing with multiple tape transfers and dubbing up to other formats. Just put your reel on a VPR-1 for superior reproduction and let TBC-1 take the worry out of time base correction.

VPR-10 adapts to your most demanding requirements. It operates reliably on either automobile power or its own quick-change battery housed within the VTR enclosure. A completely charged battery provides a full 90 minutes of operating time. An accessory battery fast charger and AC line converter round out VPR-10's versatility.

For documentaries, training projects, EFP or news—if you demand top quality productions plus true portability—VPR-10 is for you.



VPR-10 Preliminary Record Specifications (playback through VPR-1)

VIDEO PERFORMANCE	NTSC 525/60	PAL/SECAM 625/50
Bandwidth	Flat to 4.2 MHz Tolerance ± 0.5 dB	Flat to 5.0 MHz, Tolerance ± 0.5 dB -3 dB at 5.5 MHz
Signal-to-Noise Ratio (Rohde & Schwarz unweighted, with video bandpass filters in)	-46 dB peak-to-peak video to RMS noise on an interchange basis	-43 dB peak-to-peak video to RMS noise on an interchange basis
Low Frequency Linearity	4% blanking to white (maximum)	4% blanking to white (maximum)
Differential Gain	4% blanking to white (maximum)	4% blanking to white (maximum)
Differential Phase	4° at 3.58 MHz off-tape (maximum)	4° at 3.58 MHz off-tape (maximum)
Chrominance-to-Luminance Delay	20 nsec (maximum)	20 nsec (maximum)
Transient Response (2T sine ² pulse and bar)	2% K-factor (maximum)	2% K-factor (maximum)
Moiré	-40 dB color bars 75% amplitude, 3.58 MHz subcarrier	-35 dB color bars 75% amplitude, 4.43 MHz subcarrier
Lockup time	3 seconds from READY mode	4 seconds from READY mode
AUDIO PERFORMANCE		
Frequency Response (400 Hz reference)	Audio: ± 2 dB 50 Hz to 15 kHz Cue: +2, -3 dB 50 Hz to 12 kHz	Audio: ± 2 dB 50 Hz to 15 kHz Cue: +2, -3 dB 50 Hz to 12 kHz
Signal-to-Noise Ratio	Audio: -55 dB from peak operating level Cue: -45 dB from peak operating level	Audio: -55 dB from peak operating level Cue: -45 dB from peak operating level
Distortion (Measured at 1000 Hz) @ 117 nWb/m oper. level @ 234 nWb/m oper. level	1% 3%	1% 3%
Depth of Erasure	-70 dB	-70 dB
Wow & Flutter (NAB unweighted)	.15% (audio channel)	.15% (audio channel)
SIGNAL INPUTS		
Video (75 ohms impedance)	0.5 to 2.0 volts peak-to-peak	0.5 to 2.0 volts peak-to-peak
Audio Input Amplitude:	-16 to +24 dBm (line) -34 dBm (.2mVrms) (mic)	-16 to +24 dBm (line) -34 dBm (.2mVrms) (mic)
Input Impedance:	Standard 100k ohms balanced or unbalanced. 200 ohms mic input on cue channel	Standard 100k ohms balanced or unbalanced. 200 ohms mic input on cue channel
GENERAL		
Record Time	60 minutes	60 minutes
Shuttle Time	5 minutes maximum, 1 hour reel end-to-end	5 minutes maximum, 1 hour reel end-to-end
Battery Capacity	90 minutes	90 minutes
Tape Speed	9.6 inches per second	9.45 inches per second (24.00 cm/sec)
Video Writing Speed	1000 inches per second	833 inches per second (2115.8 cm/sec)
Carrier Mode	7.06 - 10.0 MHz High-Band Color	7.16 - 9.3 MHz High-Band Color
Power Input	AC or battery operated; 90 minutes capacity on internal battery. AC power pack includes quick charger system.	
PHYSICAL DIMENSIONS:		
Height	17.5" (44.45 cm) W x 16.5" (41.91 cm) D x 7.0" (17.78 cm) H with cover in place	17.5" (44.45 cm) x 16.5" (41.91 cm) D x 7.0" (17.78 cm) H with cover in place
Weight	45 lbs (20.25 kg) including batteries and cover	45 lbs (20.25 kg) including batteries and cover
TEMPERATURE & HUMIDITY		
Temperature	0 - 45°C	0 - 45°C
Humidity	10% - 90% RH (non-condensing)	10% - 90% RH (non-condensing)
Specifications subject to change without notice.		



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